

Name: _____

Polarity Practice Worksheet 2

Predict the polarity of the following molecules. Include a shape diagram, bond dipoles, and the final resultant dipole (if nonzero) of the molecule.

1. boron trifluoride, BF_3 ($\text{EN}_\text{B} = 2.0$, $\text{EN}_\text{F} = 4.0$)
2. oxygen difluoride, OF_2 ($\text{EN}_\text{O} = 3.4$, $\text{EN}_\text{F} = 4.0$)
3. carbon tetraiodide, CI_4 ($\text{EN}_\text{C} = 2.5$, $\text{EN}_\text{I} = 2.6$)
4. phosphorous trichloride, PCl_3 ($\text{EN}_\text{P} = 2.2$, $\text{EN}_\text{Cl} = 3.1$)